

Appl. No. 10/684,081 Reply to Office Action of December 17, 2004 Replacement Sheet

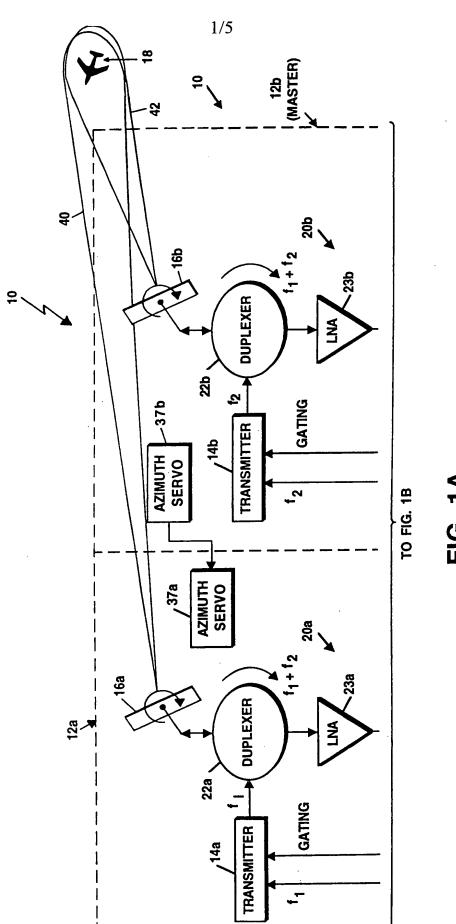
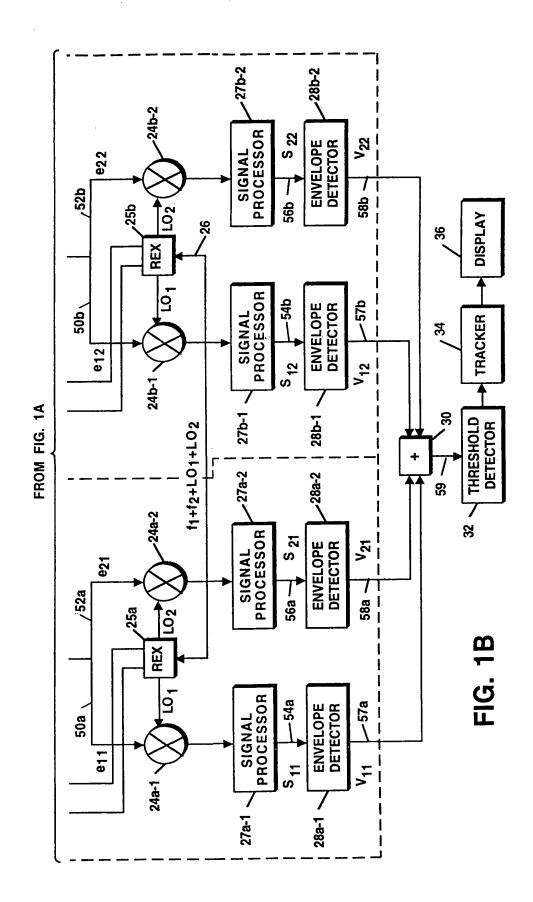
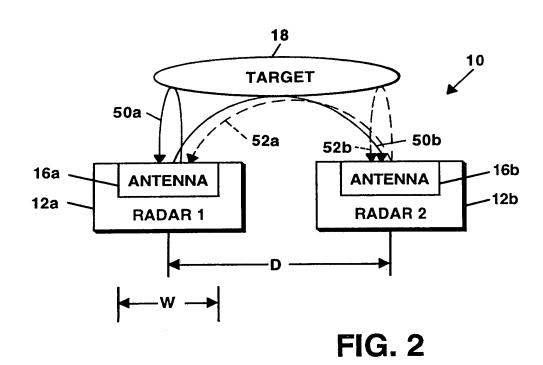
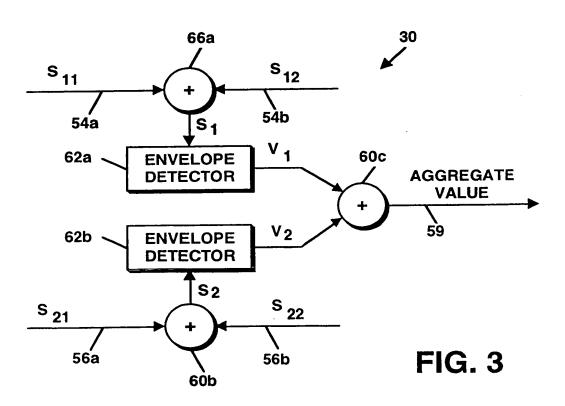
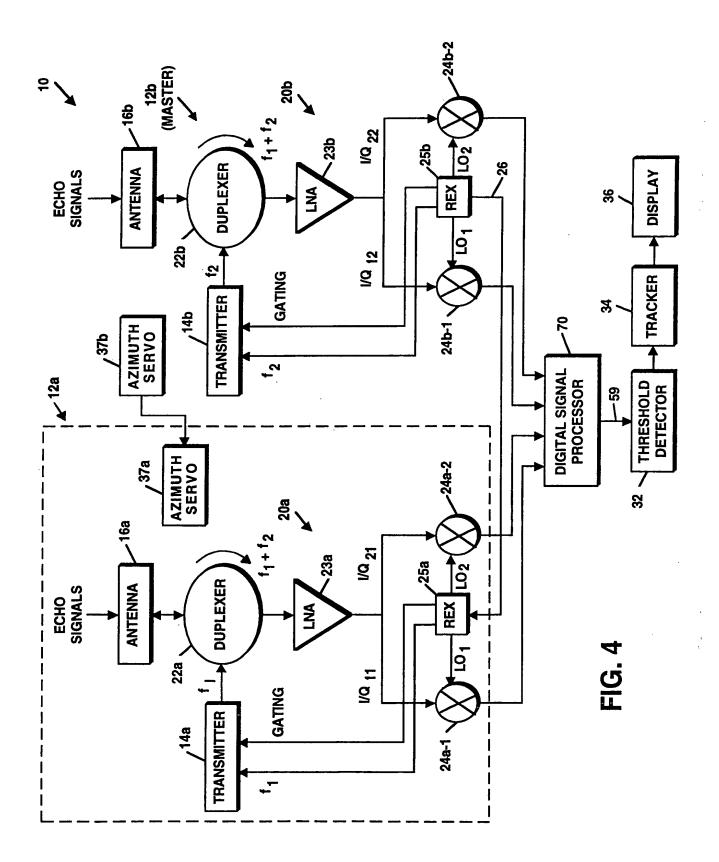


FIG. 1A









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SNR	Sensitivity	Improvement (dB)	9~		9~				6~	6~		9~		9~		8.7	
Type of Target			Non-fluctuating		Non-fluctuating				Non-fluctuating	Non-fluctuating		Non-fluctuating		Non-fluctuating		Swerling-II	
How	Waveforms	Transmitted	Simultaneously		Simultaneously				Simultaneously	Simultaneously		Sequentially		Sequentially		Simultaneously	
Receiver	Processing of	S ₁₁ , S ₁₂ and S ₂₁ , S ₂₂	Incoherent	(as shown in FIG. 1)	Coherent +	Incoherent	(as shown in	FIG. 3)	Coherent	Coherent +	Incoherent	Incoherent		Coherent +	Incoherent	Incoherent	
Coherent or	Incoherent	on Transmit	Incoherent		Incoherent				Coherent	Coherent		Incoherent		Incoherent		Incoherent	
Carrier	Frequencies	for Radar 1 (f_1) and Radar 2 (f_2)	f ₁ ≠f ₂		f ₁ ≠ f ₂				f ₁ =f ₂	f ₁ =f ₂		$f_1 = f_2$		$f_1 = f_2$		$f_1 \neq f_2$	
Mode			Search/	Track	Search/	Track			Track	Track		Search/	Track	Search/	Track	Search/	Track

FIG. 5